IN THE CLAIMS:

1. A method for analyzing a human cell having an average-straight-line-velocity of-between-0-and 10-μm/min-by suppressing movement of the human cell caused by other than activity of the human cell itself comprising the steps of:

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placing the human cell having an average straight line velocity of between 0 and 10 µm/min in a solution containing a viscosity enhancement medium; and

measuring the motility of the human cell in the solution.



3. A method as described in Claim 1 wherein the viscosity enhancement medium is hyaluronic acid or chondroitin sulfate or cellulose ester or polysaccharide.



9. A method for analyzing a human cell by suppressing movement of the human cell caused by other than activity of the human cell itself comprising the steps of:

placing the cell having an average straight line velocity of between 0 and 10 $\mu m/min$ in a solution; and

measuring the motility of the human cell in the solution when there is no attachment, to any surface of the cell involved.

11. A method for analyzing a human cell comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and 10 μm/min in a solution having a viscosity of about 100-5000 centipoise; and

performing two-dimensional or three-dimensional migration analysis on the cell in the solution.

12. A method for analyzing a cell comprising the steps of:

placing the cell in a solution having a viscosity of about 100-5000 centipoise;

and

of the cell analyzing migration of the cell in the solution which occurs without adherence

to any surface.

17. A method for analyzing a human cell comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and 10 µm/min in a solution having a viscosity of about 100-5000 centipoise; and

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measuring motility of the cell in the solution, where surface attachment by the cell to any surface is not utilized.

Cancel Claims 10, 13-15, 18-22, 24 and 32-37.

23. A method for analyzing a human cell by suppressing movement of the human cell caused by other than activity of the human cell itself comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and 10 $\mu m/min$ in a solution; and



placing methyl cellulose in the solution to reduce ambient motion of the human cell in the solution and eliminate convective motion.

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25. A method for analyzing a human cell by suppressing movement of the human cell caused by other than activity of the human cell itself comprising the steps of:

placing the human cell in a solution; and

using methyl cellulose in the solution for stopping the effects of gravity on the human cell in the solution.

26. A method for analyzing a human cell by suppressing movement of the human cell caused by other than activity of the human cell itself comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and μ m/min in a solution; and

(using) methyl cellulose in the solution for reducing or eliminating the effects of micro-turbulances due to thermal convection in the solution.

27. A method for analyzing a human cell comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and $10 \ \mu m/min$ in a solution; and

introducing methyl cellulose in the solution for stopping motion of the cells due to mechanical movement of a plate on which the cells are disposed.

28. A method for analyzing a human cell comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and $10\ \mu m/min$ in a solution; and

introducing a viscous fluid having a viscosity of about 100-5000 centipoise in the solution for stopping or reducing the effects of gravity on the cell.

29. A method for analyzing a human cell comprising the steps of:

placing the human cell having an average straight line velocity of between 0 and $10~\mu m/min$ in a solution; and

introducing a viscous fluid having a viscosity of about 100-5000 centipoise in the solution for reducing the effects of micro-turbulences due to thermal convection.

30. A method for analyzing a human cell comprising the steps of:

placing the cell in a solution; and

introducing a viscous fluid having a viscosity of about 100-5000 centipoise in the solution for stopping motion of the cells due to mechanical movement of the plate.

31. A method for analyzing a human cell by suppressing movement of the human cell caused by other than activity of the human cell itself comprising the steps of:



placing the human cell having an average straight line velocity of between 0 and $10\ \mu m/min$ in a solution; and

using methyl cellulose or any viscous fluid to separate biological motility from ambient motility.

Please add the following claim.

38. A method for analyzing either a T-cell, dendritic cell, B-cell or lymphocyte having an average straight line velocity of between 0 and 10 µm/min by suppressing movement of either a T-cell, dendritic cell, B-cell or lymphocyte caused by other than activity of either a T-cell, dendritic cell, B-cell or lymphocyte itself comprising the steps of:



placing either a T-cell, dendritic cell, B-cell or lymphocyte having an average straight line velocity of between 0 and 10 μ m/min in a solution containing a viscosity enhancement medium; and

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measuring the motility of either a T-cell, dendritic cell, B-cell or lymphocyte in the solution.